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SAFETY DATA SHEET

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Section 1. Identificatio	n	
GHS product identifier Chemical name	:	HE3 PEARL VIOLET.PG Mixture
CAS number Other means of identification Product type	:	Mixture CC10228372 liquid
<u>Relevant identified uses of the subst</u> Product use	ance :	e or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	POLYONE CORPORATION ColorMatrix Group Inc. 680 North Rocky River Drive, Berea, Ohio, 44017-1628, USA
		+1 216 622 0100
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.

GHS label elements

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Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10228372

CAS number/other identifiers

Ingredient name	%	CAS number
Rutile (TiO2)	10 - 30	1317-80-2
Titanium dioxide	5 - 10	13463-67-7
Carbon black	0.1 - 1	1333-86-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures



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Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Exposure to decomposition products may cause a health hazard.
Skin contact	:	Serious effects may be delayed following exposure. No known significant effects or critical hazards.
	:	No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical atten	ntior	n and special treatment needed, if necessary
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

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See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 . None known.
Specific hazards arising from the chemical Hazardous thermal decomposition products	:	In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for fire- fighters Special protective equipment for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated
5		in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containm	ient a	nd cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with



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water and mop up if water-soluble. Alternatively, or if waterinsoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name

Exposure limits



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Titanium dioxide	OSHA PEL 1989 (1989-03-01)PEL: Permissible Exposure Level 10 mg/m3 Form: Total dustOSHA PEL (1993-06-30)PEL: Permissible Exposure Level 15 mg/m3 Form: Total dustNIOSH REL (1994-06-01)ACGIH TLV (1996-05-18)TLV-TWA: Threshold Limit Value - Time weighted average PEL:Permissible Exposure Level 10 mg/m3
Carbon black	OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 3.5 mg/m3 OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 3.5 mg/m3 NIOSH REL (1994-06-01) Time Weighted Average (TWA) 3.5 mg/m3 Time Weighted Average (TWA) ACGIH TLV (2010-12-06) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction
Appropriate engineering controls Environmental exposure controls	 Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures Eye/face protection	 Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	



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Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state	:	liquid [liquid]
Color	:	PURPLE
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n-	:	Not available.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.

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Viscosity

Dynamic: Not available. Kinematic: Not available.

Section 10. Stability and reactivity

:

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Carbon black				
	LD50 Oral	Rat	15,400 mg/kg	-
Conclusion/Summary	: Mixtu	re.Not fully tested.		
Conclusion/Summary Skin	: Mixtu	re.Not fully tested.		
Conclusion/Summary	Minte	ma Not fully tootad		
Eyes	Mixture.Not fully tested.			
Respiratory	: Mixtu	re.Not fully tested.		
<u>Sensitization</u>				
Conclusion/Summary				
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Skin Respiratory	:		ixture.Not fully t ixture.Not fully t		
Mutagenicity					
Conclusion/Summary	:	M	ixture.Not fully t	rested.	
Carcinogenicity					
Conclusion/Summary <u>Classification</u>	:	M	ixture.Not fully t	ested.	
Product/ingredient name	OSHA		IARC	NTP	
Rutile (TiO2)			2B		
Titanium dioxide			2B		
Carbon black			2B		
<u>Reproductive toxicity</u> Conclusion/Summary	:	M	ixture.Not fully t	ested.	
<u>.</u> <u>Teratogenicity</u>			,		
Conclusion/Summary	:	M	ixture.Not fully t	ested.	
<u>Specific target organ toxicity (single exposure)</u> Not available.					
Specific target organ toxicity Not available.	v (repeated	l expo	<u>sure)</u>		
Aspiration hazard Not available.					
Information on the likely rou exposure	tes of :	No	ot available.		
Potential acute health effects					
Eye contact	:	No	known signific:	ant effects or critical hazards.	
Inhalation				position products may cause a health hazard.	
				y be delayed following exposure.	
Skin contact	:			ant effects or critical hazards.	
Ingestion	:			ant effects or critical hazards.	
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Symptoms related to the physical, chemical and toxicological characteristics

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Eye contact	: No specific d	ata.
Inhalation	: No specific d	ata.
Skin contact	: No specific d	ata.
Ingestion	: No specific d	ata.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	:	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium dioxide			
	Acute LC50 > 1,000,000 μg/l	Fish - Fish	96 h
	Marine water		
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Acute LC50 > 1,000 mg/l Fresh water	Fish - Fish	96 h
Acute LC50 13 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Acute LC50 6.5 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Acute EC50 35.306 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Acute LC50 3 mg/l Fresh water	Aquatic invertebrates. Crustacean Order	48 h
Acute LC50 15.9 mg/l Fresh water	Aquatic invertebrates. Crustacean Order	48 h
Acute LC50 3.6 mg/l Fresh water	Aquatic invertebrates. Crustacean Order	48 h
Acute LC50 11 mg/l Fresh water	Aquatic invertebrates. Crustacean Order	48 h
Acute LC50 13.4 mg/l Fresh water	Aquatic invertebrates. Crustacean Order	48 h
•		•
Acute EC50 37.563 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Acute LC50 61.547 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	waterAcute LC50 13 mg/l Fresh waterAcute LC50 6.5 mg/l Fresh waterAcute EC50 19.3 mg/l Fresh waterAcute EC50 27.8 mg/l Fresh waterAcute EC50 35.306 mg/l Fresh waterAcute LC50 3 mg/l Fresh waterAcute LC50 15.9 mg/l Fresh waterAcute LC50 3.6 mg/l Fresh waterAcute LC50 11 mg/l Fresh waterAcute LC50 13.4 mg/l Fresh waterAcute LC50 37.563 mg/l Fresh waterAcute LC50 61.547 mg/l Fresh	waterAcute LC50 13 mg/l Fresh waterAquatic invertebrates. DaphniaAcute LC50 6.5 mg/l Fresh waterAquatic invertebrates. DaphniaAquatic invertebrates. DaphniaAcute EC50 19.3 mg/l Fresh waterAquatic invertebrates. DaphniaAquatic invertebrates. DaphniaAcute EC50 27.8 mg/l Fresh waterAquatic invertebrates. DaphniaAcute EC50 35.306 mg/l Fresh waterAquatic invertebrates. DaphniaAcute EC50 3 mg/l Fresh waterAquatic invertebrates. DaphniaAcute LC50 3 mg/l Fresh waterAquatic invertebrates. Crustacean OrderAcute LC50 15.9 mg/l Fresh waterAquatic invertebrates. Crustacean OrderAcute LC50 3.6 mg/l Fresh waterAquatic invertebrates. Crustacean OrderAcute LC50 11 mg/l Fresh waterAquatic invertebrates. Crustacean OrderAcute LC50 13.4 mg/l Fresh waterAquatic invertebrates. Crustacean OrderAcute EC50 37.563 mg/l Fresh waterAquatic invertebrates. DaphniaAcute LC50 61.547 mg/l Fresh WaterAquatic invertebrates. Crustacean Order

Conclusion/Summary

: Not available.

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Diouceumunutive potentium				
Product/ingredient name	LogPow	BCF	Potential	
Rutile (TiO2)		34.00	low	
Titanium dioxide		352.00	low	

Mobility in soil

Soil/water partition coefficient	:	Not available.
(KOC)		
Other adverse effects	:	No known significant effects or critical hazards.

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Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA	:	Not classified as dangerous good under transport regulations.
IMO/IMDG (maritime)	:	Not classified as dangerous good under transport regulations.

Section 15. Regulatory information

U.S. Federal regulations	:	United States - TSCA 12(b) - Chemical export notification: None
		of the components are listed.
		United States - TSCA 4(a) - Final Test Rules: Not listed
		United States - TSCA 4(a) - ITC Priority list: Not listed
		United States - TSCA 4(a) - Proposed test rules: Not listed
		United States - TSCA 4(f) - Priority risk review: Not listed
		United States - TSCA 5(a)2 - Final significant new use rules: Not
		listed
		United States - TSCA 5(a)2 - Proposed significant new use rules:
		Not listed
		United States - TSCA 5(e) - Substances consent order: Not listed
		United States - TSCA 6 - Final risk management: Not listed
		United States - TSCA 6 - Proposed risk management: Not listed

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		United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed

DEA List II Chemicals (Essential : Not listed **Chemicals**)

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

Name	%	Classification
Rutile (TiO2)	10 - 30	СН
Titanium dioxide	5 - 10	СН



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Carbon black	0.1 - 1	СН
SARA 313 Not applicable.		
<u>State regulations</u> Massachusetts	: The following components are lis Mica Titanium dioxide	sted:
New York New Jersey	 None of the components are liste The following components are listomica Titanium dioxide Carbon black 	
Pennsylvania	: The following components are lis Rutile (TiO2)	sted:
	Titanium dioxide	
	Carbon black	
<u>California Prop. 65</u> WARNING: This product contains a c	chemical known to the State of Californi	a to cause cancer.
United States inventory (TSCA 8b)	: All components are listed or exer	mpted.
Canada inventory	: All components are listed or exer	mpted.
International regulations		
International lists	Taiwan inventory (CSNN): Al Malaysia Inventory (EHS Regi EINECS: All components are lis Japan inventory: Not determin China inventory (IECSC): All Korea inventory: All compone	sted or exempted. ed. components are listed or exempted. nts are listed or exempted. micals (NZIoC): All components
Chemical Weapons Convention List Schedule I Chemicals	: Not listed	
Chemical Weapons Convention	: Not listed	
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List Schedule II Chemicals Chemical Weapons Convention List Schedule III Chemicals

Not listed

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Section 16. Other information

History		
Date of printing	:	11/25/2015
Date of issue/Date of revision	:	11/24/2015
Date of previous issue	:	00/00/0000
Version	:	1.0
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations Not available.
Kelerences	•	Not available.

Notice to reader

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